CIVIL PRO
AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-55

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Kote Bheedi in Chowdeshwari Ward No.02

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	6 set /101-150 cum	108.82	12	12
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	11 set /351-400 cum	352.47	22	22

AE2
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 21-06-21

Lab ID	:	CP-2021-08-30-48
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kote Bheedi in Chowdeshwari Ward No.02
Agency	:	Sri.K.lakshmi Narayana Reddy, S/o Krishna Patalappa, #688, 1st Floor , Vyalikaval Society, Near Chaitanya Techno School, Veeranapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/20/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-06-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

AE-2

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AE-02

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-08-30-48** **Date: 21-06-21**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kote Bheedi in Chowdeshwari Ward No.02
Agency	:	Sri.K.lakshmi Narayana Reddy, S/o Krishna Patalappa, #688, 1st Floor , Vyalikaval Society, Near Chaitanya Techno School, Veeranapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/20/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-06-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-06-21

AE-2
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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/07/2021

Lab ID : CP-2021-08-30-48

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kote Bheedi in Chowdeshwari Ward No.02

Agency : Sri.K.lakshmi Narayana Reddy, S/o Krishna Patalappa, #688, 1st Floor , Vyalikaval Society, Near Chaitanya Techno School, Veeranapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/YNK.D/EPMT-10/W.O/20/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-21

Customer ID : Drain Side wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side wall Concrete	M20	01/07/2021	08/07/2021	151.31 X 149.33 X 151.63	22595	8.610	423.7	18.8	18.7
2	Drain Side wall Concrete	M20	01/07/2021	08/07/2021	150.72 X 149.28 X 149.42	22499	8.605	422.9	18.8	
3	Drain Side wall Concrete	M20	01/07/2021	08/07/2021	149.61 X 151.94 X 150.68	22732	8.532	418.6	18.4	

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KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/08/2021

D	:	CP-2021-08-30-48
omer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
ress	:	Yelahanka Sub Division, BBMP, Bangalore.
ject Name	:	Improvements to Roads and Drains at Kote Bheedi in Chowdeshwari Ward No.02
ency	:	Sri.K.lakshmi Narayana Reddy, S/o Krishna Patalappa, #688, 1st Floor , Vyalikaval Society, Near Chaitanya Techno School, Veeranapalya, Bangalore-560045.
ustomer's Reference	:	BBMP/EE/YNK.D/EPMT-10/W.O/20/2021-22
ource of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-08-21
Customer ID	:	Cement Concrete Pavements
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavements	M30	02/08/2021	30/08/2021	150.26 X 149.51 X 151.82	22465	8.283	761.3	33.9	33.3
2	Cement Concrete Pavements	M30	02/08/2021	30/08/2021	151.28 X 149.75 X 150.48	22654	8.385	738.9	32.6	
3	Cement Concrete Pavements	M30	02/08/2021	30/08/2021	150.65 X 151.18 X 150.08	22776	8.956	763.6	33.5	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****